bs-0380R **[Primary Antibody]**

MBP Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 414286 **SWISS:** P81558

Target: MBP

Immunogen: KLH conjugated synthetic peptide derived from Gpig MBP: 69-85/167.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Oligodendrocyte Marker
The classic group of Myelin basic protein (MBP) isoforms (isoforms 4 to 14) are with PLP the most abundant protein components of the myelin membrane in the CNS. They have a role in both its formation and stabilization. The smaller isoforms might have an important role in remyelination of denuded axons in multiple sclerosis. The non classic group of MBP isoforms (isoforms 1 to 3/Golli MBPs) may preferentially have a role in the early developing brain long before myelination, maybe as components of transcriptional complexes, and may also be involved in signaling pathways in T cells and neural cells. Differential splicing events combined to optional posttranslational modifications give a wide spectrum of isomers, each of them having maybe a specialized function.

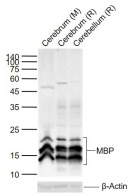
Applications: **WB** (1:1000-5000)
IHC-P (1:500-2000)
IHC-F (1:500-2000)
IF (1:500-2000)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Dog, Horse)

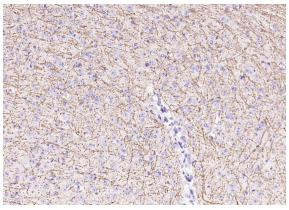
Predicted MW.: 33 kDa

Subcellular Location: Cell membrane ,Cytoplasm

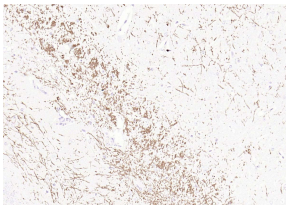
VALIDATION IMAGES



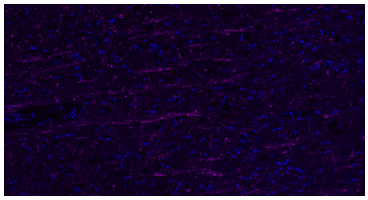
25 ug total protein per lane of various lysates (see on figure) probed with MBP polyclonal antibody, unconjugated (bs-0380R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



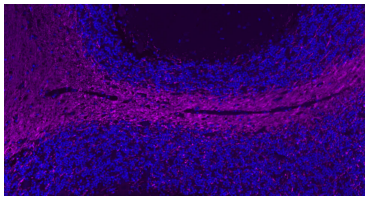
Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal Antibody, Unconjugated (bs-0380R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal Antibody, Unconjugated (bs-0380R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Left Parietal Lobe; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal



Paraformaldehyde-fixed, paraffin embedded Human Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal

Antibody, Unconjugated (bs-0380R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Rose red, bs-0295D-Cy5), DAPI (blue, C02-04002) was used to stain the cell nuclei.

Antibody, Unconjugated (bs-0380R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Rose red, bs-0295D-Cy5), DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=12.8]** Xiaolan Ou. et al. VEGF-loaded ROS-responsive nanodots improve the structure and function of sciatic nerve lesions in type II diabetic peripheral neuropathy.. BIOMATERIALS. 2024 Oct;:122906 IF ;Rat. 39488031
- **[IF=7.59]** Yuanxin Zhai. et al. High-efficiency Brain-targeted Intranasal Delivery of BDNF Mediated by Engineered Exosomes to Promote Remyelination. BIOMATER SCI-UK. 2022 Aug;: IF ;Mouse. 36039673
- **[IF=8.352]** Chanjuan Dong. et al. Graphene-based conductive fibrous scaffold boosts sciatic nerve regeneration and functional recovery upon electrical stimulation. Appl Mater Today. 2020 Dec;21:100870 IHC ;Rat. 10.1016/j.apmt.2020.100870
- **[IF=7]** Yueqi Yang. et al. DHA and EPA Alleviate Epileptic Depression in PTZ-Treated Young Mice Model by Inhibiting Neuroinflammation through Regulating Microglial M2 Polarization and Improving Mitochondrial Metabolism. ANTIOXIDANTS-BASEL. 2023 Dec;12(12):2079 WB ;Mouse. 38136199
- **[IF=7.478]** Ayaka Nakatani. et al. S100A8 enhances IL-1β production from nasal epithelial cells in eosinophilic chronic rhinosinusitis. ALLERGOL INT. 2022 Sep;: IF ;Human. 36117020